

A. AMENDMENTS TO CLAIMS

Please add new Claims 29-76 and amend the claims as indicated hereinafter.

- 1 1. (ORIGINAL) A method for previewing an electronic document, the method comprising:
2 generating the electronic document at a client;
3 transmitting document information associated with the electronic document from the
4 client to a printing device;
5 generating preview document data at the printing device based on the document
6 information and a set of one or more specific characteristics associated with the
7 printing device, wherein the set of one or more specific characteristics are
8 unavailable at the client;
9 transmitting the preview document data to the client from the printing device; and
10 previewing the electronic document at the client based on the preview document data
11 received from the printing device.
- 1 2. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.
- 1 3. (ORIGINAL) The method as recited in Claim 1, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.
- 1 4. (ORIGINAL) The method as recited in claim 1, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing

3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 5. (ORIGINAL) The method as recited in claim 1, wherein the step of generating preview
2 document data at the printing device includes generating a bitmap image at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 6. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 7. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper type characteristics, wherein the one or
3 more paper type characteristics indicate a specific type of paper that has been for printing
4 the electronic document.

1 8. (ORIGINAL) The method as recited in Claim 6, wherein the one or more different
2 paper characteristics includes one or more paper color characteristics, wherein the one or
3 more paper color characteristics indicate a specific color of paper that has been for
4 printing the electronic document.

1 9. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and

4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 10. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 11. (ORIGINAL) The method as recited in Claim 1, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 12. (ORIGINAL) The method as recited in Claim 1, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 13. (ORIGINAL) The method as recited in Claim 1, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and

5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 14. (ORIGINAL) The method as recited in Claim 1, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 15. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 16. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 17. (ORIGINAL) The method as recited in Claim 1, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 18. (ORIGINAL) The method as recited in Claim 1, wherein

2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

1 19. (ORIGINAL) A method for previewing an electronic document, the method comprising:
2 receiving from a client at a printing device document information associated with an
3 electronic document;
4 generating preview document data at the printing device based on the document
5 information and a set of one or more specific characteristics associated with the
6 printing device; and
7 transmitting to the client the preview document data for causing a display unit associated
8 with the client to display a preview version of the electronic document.

1 20. (ORIGINAL) The method as recited in Claim 19, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 21. (ORIGINAL) The method as recited in claim 19, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 22. (ORIGINAL) The method as recited in Claim 19, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and

4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 23. (ORIGINAL) The method as recited in Claim 19, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 24. (ORIGINAL) The method as recited in Claim 19, wherein the step of generating
2 preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 25. (ORIGINAL) The method as recited in Claim 19, wherein
2 the step of generating preview document data at the printing device
3 includes generating three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.

1 26. (ORIGINAL) A computer-readable medium carrying one or more sequences of
2 instructions for previewing an electronic document, wherein execution of the one or more
3 sequences of instructions by one or more processors causes the one or more processors to
4 perform:

5 generating the electronic document at a client;
6 transmitting document information associated with the electronic document from the
7 client to a printing device;
8 generating preview document data at the printing device based on the document
9 information and a set of one or more specific characteristics associated with the
10 printing device, wherein the set of one or more specific characteristics are
11 unavailable at the client;
12 transmitting the preview document data to the client from the printing device; and
13 displaying a preview version of the electronic document at the client based on the
14 preview document data that is received from the printing device.

1 27. (ORIGINAL) A system for previewing an electronic document, comprising:
2 one or more processors;
3 one or more memories coupled to the one or more processors; and
4 one or more sequences of instructions stored in the one or more memories, wherein
5 execution of the one or more sequences of instructions by one or more processors
6 causes the one or more processors to perform the steps of:
7 receiving from a client at a printing device document information associated with
8 said electronic document;
9 generating preview document data at the printing device based on the document
10 information and a set of one or more specific characteristics associated
11 with the printing device, wherein the set of one or more specific
12 characteristics are unavailable at the client;
13 transmitting the preview document data to the client from the printing device for
14 displaying a preview version of the electronic document at said client.

1 28. (CURRENTLY AMENDED) ~~An document~~ A document preview apparatus comprising:

2 a memory for storing characteristics that are associated with the document preview
3 apparatus, wherein the characteristics are unavailable to clients that are connected
4 to the document preview apparatus; and
5 one or more processors that are configured for
6 receiving from the client document information associated with an electronic
7 document;
8 generating preview document data based on the document information and one or
9 more of the characteristics associated with the document preview
10 apparatus; and
11 transmitting to the client the preview document data for causing a display unit
12 associated with the client to display a preview version of the electronic
13 document.

1 29. (NEW) The computer-readable medium as recited in Claim 26, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.

1 30. (NEW) The computer-readable medium as recited in Claim 26, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.

1 31. (NEW) The computer-readable medium as recited in claim 26, wherein the step of
2 generating preview document data at the printing device includes generating raster image
3 data at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 32. (NEW) The computer-readable medium as recited in claim 26, wherein the step of
2 generating preview document data at the printing device includes generating a bitmap
3 image at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 33. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 34. (NEW) The computer-readable medium as recited in Claim 33, wherein the one or more
2 different paper characteristics includes one or more paper type characteristics, wherein
3 the one or more paper type characteristics indicate a specific type of paper that has been
4 for printing the electronic document.

1 35. (NEW) The computer-readable medium as recited in Claim 33, wherein the one or more
2 different paper characteristics includes one or more paper color characteristics, wherein
3 the one or more paper color characteristics indicate a specific color of paper that has been
4 for printing the electronic document.

1 36. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 37. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 38. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 39. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 40. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and
5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 41. (NEW) The computer-readable medium as recited in Claim 26, wherein the step of
2 generating preview document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 42. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 43. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 44. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 45. (NEW) The computer-readable medium as recited in Claim 26, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

- 1 46. (NEW) The system as recited in Claim 27, wherein:
2 the printing device is a multi-functional printer (MFP); and
3 the step of transmitting document information includes transmitting document
4 information to the MFP.
- 1 47. (NEW) The system as recited in Claim 27, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of transmitting document information includes transmitting PDL data from the
4 client to the printing device.
- 1 48. (NEW) The system as recited in claim 27, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.
- 1 49. (NEW) The system as recited in claim 27, wherein the step of generating preview
2 document data at the printing device includes generating a bitmap image at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.
- 1 50. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.
- 1 51. (NEW) The system as recited in Claim 50, wherein the one or more different paper
2 characteristics includes one or more paper type characteristics, wherein the one or more

3 paper type characteristics indicate a specific type of paper that has been for printing the
4 electronic document.

1 52. (NEW) The system as recited in Claim 50, wherein the one or more different paper
2 characteristics includes one or more paper color characteristics, wherein the one or more
3 paper color characteristics indicate a specific color of paper that has been for printing the
4 electronic document.

1 53. (NEW) The system as recited in Claim 27, wherein
2 the printing device supports one or more different fonts that are available for printing
3 electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different fonts that are available for printing
6 electronic documents.

1 54. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different stapling characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different stapling characteristics that are available
6 for selection.

1 55. (NEW) The system as recited in Claim 27, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 56. (NEW) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device; and
3 the set of one or more specific characteristics that are unavailable at the client includes
4 one or more characteristics that are unknown to the print driver.

1 57. (NEW) The system as recited in Claim 27, wherein
2 the client includes a print driver that is associated with the printing device, wherein the
3 print driver is associated with one or more print driver attributes that are not
4 supported by the printing device; and
5 the step of generating preview document data at the printing device includes the step of
6 translating one or more of the one or more print driver attributes into one or more
7 printing device attributes that are supported by the printing device.

1 58. (NEW) The system as recited in Claim 27, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining the resolution of a display device that is associated with the client; and
4 generating the preview document data based on the resolution of the display device.

1 59. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating two-dimensional (2-D) preview document data; and
4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 2-D.

1 60. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device
3 includes the steps of generating three-dimensional (3-D) preview document data; and

4 the step of displaying the preview version of the electronic document includes the step of
5 displaying portions of the electronic document at the client in 3-D.

1 61. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating HyperText Markup Language (HTML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the HTML data to the client from the printing device.

1 62. (NEW) The system as recited in Claim 27, wherein
2 the step of generating preview document data at the printing device includes the steps of
3 generating Extensible Markup Language (XML) data at the printing device; and
4 the step of transmitting the preview document data to the client includes the step of
5 transmitting the XML data to the client from the printing device.

1 63. (NEW) A computer-readable medium for previewing an electronic document, the
2 computer-readable medium carrying one or more sequences of instructions which, when
3 executed by one or more processors, cause the performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.

1 64. (NEW) The computer-readable medium as recited in Claim 63, wherein:
2 the document information is Page Description Language (PDL) data; and

3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 65. (NEW) The computer-readable medium as recited in claim 63, wherein the step of
2 generating preview document data at the printing device includes generating raster image
3 data at the printing device based upon the document information and the set of one or
4 more specific characteristics associated with the printing device.

1 66. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 67. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 68. (NEW) The computer-readable medium as recited in Claim 63, wherein the step of
2 generating preview document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 69. (NEW) The computer-readable medium as recited in Claim 63, wherein
2 the step of generating preview document data at the printing device includes generating
3 three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.

1 70. (NEW) An apparatus for previewing an electronic document, the apparatus comprising a
2 memory storing instructions which, when executed by one or more processors, cause the
3 performance of:
4 receiving from a client at a printing device document information associated with an
5 electronic document;
6 generating preview document data at the printing device based on the document
7 information and a set of one or more specific characteristics associated with the
8 printing device; and
9 transmitting to the client the preview document data for causing a display unit associated
10 with the client to display a preview version of the electronic document.

1 71. (NEW) The apparatus as recited in Claim 70, wherein:
2 the document information is Page Description Language (PDL) data; and
3 the step of receiving document information includes receiving PDL data at the printing
4 device.

1 72. (NEW) The apparatus as recited in claim 70, wherein the step of generating preview
2 document data at the printing device includes generating raster image data at the printing
3 device based upon the document information and the set of one or more specific
4 characteristics associated with the printing device.

1 73. (NEW) The apparatus as recited in Claim 70, wherein
2 the printing device is associated with one or more different paper characteristics that are
3 available for printing electronic documents; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different paper characteristics that are available
6 for printing electronic documents.

1 74. (NEW) The apparatus as recited in Claim 70, wherein
2 the printing device is associated with one or more different finishing characteristics that
3 are available for selection; and
4 the set of one or more specific characteristics associated with the printing device includes
5 one or more of the one or more different finishing characteristics that are
6 available for selection.

1 75. (NEW) The apparatus as recited in Claim 70, wherein the step of generating preview
2 document data at the printing device further includes the steps of:
3 determining a display resolution of the display device that is associated with the client;
4 and
5 generating the preview document data based on the display resolution of the display
6 device.

1 76. (NEW) The apparatus as recited in Claim 70, wherein
2 the step of generating preview document data at the printing device includes generating
3 three-dimensional (3-D) preview document data; and
4 the step of transmitting to the client the preview document data includes transmitting
5 preview document data that causes the preview version of the electronic
6 document to be displayed in 3-D on the display unit associated with the client.